

1082,556



PATENT SPECIFICATION

DRAWINGS ATTACHED

1082,556

Inventors: WILLIAM HUDSON JAMES BROCK and WILLIAM GEORGE TURRIFF

Date of filing Complete Specification: June 27, 1966

Application Date: July 5, 1965.

No. 28366/65.

Complete Specification Published: Sept. 6, 1967.

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SPECIFICATION NO. 1,082,556

By a direction given under Section 17 (1) of the Patents Act 1949 this application proceeded in the name of William George Turriff, a British Subject, of Gretel House, Hansell Farm, Shottery, Stratford on Avon, Warwickshire.

THE PATENT OFFICE

R 125755,

which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to hair curlers of the kind which comprise generally cylindrical formers adapted to be heated before use.

It has already been proposed to provide such a curler in the form of a tube having an inner layer of heat-retaining material, such a curler being adapted for mounting on a rod-like element of a heating device.

It is the object of the present invention to provide a hair curler of the kind referred to having an improved form of heat retaining layer.

According to the present invention, a hair curler comprising a generally cylindrical tubular former consisting of an external tube having ribs, spikes or other projections on its external peripheral surface to retain in position strands of hair which are wrapped round it, and a tubular inner heat-retaining body, is characterised in that the said body consists of a thermoplastic material loaded with a heat-retaining substance (as herein defined) in the form of powder, fibres or flakes.

Preferred examples of heat retaining substances are metal, glass and asbestos.

The proportion of heat-retaining substance to thermoplastic material in the heat retaining body may be from 20% to 50% by weight, a preferred proportion in the case of glass being 30%.

The invention is hereinafter described with reference to the accompanying drawing which shows, in perspective and partly in section one form of hair curler according to the invention.

Referring to the drawing, the hair curler comprises an external tube 10 of thermoplastic

[Price 4s. 6d.]

highly strong in the external tube 10 is a tubular inner heat retaining body 13, also closed at its end 14 adjacent the closed end 11 of the tube 10, the tubular body being formed of nylon or other thermoplastic material having similar properties, which material is loaded with glass fibre, the proportion of glass fibre to thermoplastic material, by weight, being from 20% to 50% and preferably 30%.

The hair curler is adapted for heating by being fitted on to a metal stem arranged to be heated electrically, the bore of the tubular body 13 being such the said body fits fairly closely on the stem. The curler may be provided, as described in our co-pending Patent Application No. 28365/65 (Serial No. 1,082,555), with latch means to retain it in position on the heating stem against a force tending to move it axially, the latch means being released automatically when a predetermined temperature is reached to permit the curler to move wholly or partially off the stem.

The tubular body 13, instead of being loaded with glass, may be loaded with some other material which, like glass, has a higher heat capacity per unit volume than the thermoplastic material of the said body and therefore absorbs more heat when raised to a given temperature and increases the heat-retaining capacity of the body as a whole. Such materials, including glass, are to be understood as coming within the term "heat retaining material" used herein. The loading material may be in the form of powder or flakes instead of fibres.

Whilst it is preferred to use a plastics material for the external tube 10, the use of other materials such as metals is not excluded.

WHAT WE CLAIM IS:—

1. A hair curler comprising a generally

SPECIFICATION AMENDED - SEE ATTACHED

W. J. L.

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Index at acceptance:—A4 V(14A3, 14A5C)

Int. Cl.:—A 45 d 3/40

COMPLETE SPECIFICATION

Improvements in or relating to Hair Curlers

We, GEORGE E. TAYLOR & COMPANY LIMITED, a British Company, of 4 Throgmorton Avenue, London, E.C.2, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to hair curlers of the kind which comprise generally cylindrical formers adapted to be heated before use.

It has already been proposed to provide such a curler in the form of a tube having an inner layer of heat-retaining material, such a curler being adapted for mounting on a rod-like element of a heating device.

It is the object of the present invention to provide a hair curler of the kind referred to having an improved form of heat retaining layer.

According to the present invention, a hair curler comprising a generally cylindrical tubular former consisting of an external tube having ribs, spikes or other projections on its external peripheral surface to retain in position strands of hair which are wrapped round it, and a tubular inner heat-retaining body, is characterised in that the said body consists of a thermoplastic material loaded with a heat-retaining substance (as herein defined) in the form of powder, fibres or flakes.

Preferred examples of heat retaining substances are metal, glass and asbestos.

The proportion of heat-retaining substance to thermoplastic material in the heat retaining body may be from 20% to 50% by weight, a preferred proportion in the case of glass being 30%.

The invention is hereinafter described with reference to the accompanying drawing which shows, in perspective and partly in section one form of hair curler according to the invention.

Referring to the drawing, the hair curler comprises an external tube 10 of thermoplastic [Price 4s. 6d.]

material, closed at one end as shown at 11, and formed externally on its cylindrical surface with short spikes 12 or other projections to retain in position strands of hair which are wrapped round it when it is in use.

Tightly fitting in the external tube 10 is a tubular inner heat retaining body 13, also closed at its end 14 adjacent the closed end 11 of the tube 10, the tubular body being formed of nylon or other thermoplastic material having similar properties, which material is loaded with glass fibre, the proportion of glass fibre to thermoplastic material, by weight, being from 20% to 50% and preferably 30%.

The hair curler is adapted for heating by being fitted on to a metal stem arranged to be heated electrically, the bore of the tubular body 13 being such the said body fits fairly closely on the stem. The curler may be provided, as described in our co-pending Patent Application No. 28365/65 (Serial No. 1,082,555), with latch means to retain it in position on the heating stem against a force tending to move it axially, the latch means being released automatically when a predetermined temperature is reached to permit the curler to move wholly or partially off the stem.

The tubular body 13, instead of being loaded with glass, may be loaded with some other material which, like glass, has a higher heat capacity per unit volume than the thermoplastic material of the said body and therefore absorbs more heat when raised to a given temperature and increases the heat-retaining capacity of the body as a whole. Such materials, including glass, are to be understood as coming within the term "heat retaining material" used herein. The loading material may be in the form of powder or flakes instead of fibres.

Whilst it is preferred to use a plastics material for the external tube 10, the use of other materials such as metals is not excluded.

WHAT WE CLAIM IS:—

1. A hair curler comprising a generally

Price 5s. 0d.

Price 25p

- cylindrical tubular former consisting of an external tube having ribs, spikes or other projections on its external peripheral surface to retain in position strands of hair which are wrapped round it, and a tubular inner heat-retaining body, characterised in that the said body consists of a thermoplastic material loaded with a heat-retaining substance (as herein defined) in the form of powder, fibres or flakes.
2. A hair curler according to claim 1, wherein the heat retaining substance is metal, glass or asbestos.
3. A hair curler according to claim 1 or 2 wherein the proportion of heat-retaining substance to thermoplastic material in the heat-retaining body is from 20% to 50% by weight.
4. A hair curler according to claim 3, wherein the heat-retaining substance is glass and the proportion thereof to the thermoplastic material is 30% by weight.
5. A hair curler substantially as described with reference to, and as shown in, the accompanying drawing.
- For the Applicants:
F. J. CLEVELAND & COMPANY,
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40—43, Chancery Lane,
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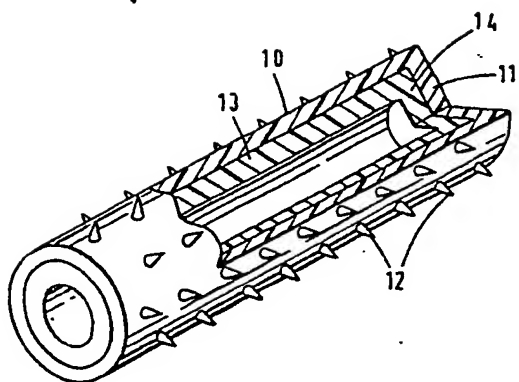
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COMPLETE SPECIFICATION

1 SHEET

*This drawing is a reproduction of
the Original on a reduced scale*



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